

that provides for a correct logical state of the signal transmitted by the basic isolation interface (A1, C+, C-, R+, R-, A2) with the capacitive barrier, and that an output of the decision logical circuit (DLC) is the output of the isolation interface with the capacitive barrier.

7. (amended) Method for transmitting a signal through an isolation interface with a capacitive barrier as recited in claim 5, characterized in that, besides transmitting the input signal U_i through the basic isolation interface with the capacitive barrier, there is uninterruptedly performed the transmitting of a constant frequency signal U_{ia} , which is pulse-width-modulated with the transmitted input signal U_i , through an auxiliary isolation interface for transmission over an auxiliary communication channel (ACC) and that according to a modulation of the transmitted pulse-width-modulated signal U_{outa} , the logical state of an output signal U_{out} transmitted by the isolation interface with the capacitive barrier is adjusted.